

Location:

Metaldyne Sintered Components, USA

Application:

Powdered Metal

Problem:

Increased maintenance downtime due to camber and distortion and excessive stretch removal with only three months belt life.

Solution:

The Knuckleback Belt offered nine months belt life and resulted in reduction of camber, excessive stretch and maintenance downtime.

Summary:

- Three times longer belt life
- Lower maintenance downtime
- Reduction of camber and excessive stretch
- Cost savings

Knuckleback Belt Results in Three Times Longer Wear Life

The problem of belt distortion is common in high temperature applications. To remove it requires frequent and costly downtime. Metaldyne Sintered Components, a powdered metal parts manufacturer was only getting three months belt life on their sintering furnaces using a competitor's traditional round wire style furnace belt. During the three months, they faced increased downtime to repair camber and excessive stretch. They needed a solution that could keep production moving and decided to

switch to the Cambridge Knuckleback Belt by Rexnord.

With less excess wire that stretches or cambers and a reinforced weld meant withstand wear over time, the Knuckleback's design is proven to last. After the switch, Metaldyne achieved nine months belt life on the same sintering furnace. The cost savings to the customer for downtime and repair exceeded \$30,000 per furnace belt each year.

Knuckleback Benefits

- Flattened wire reduces stretch and carbon buildup
- Reinforced proprietary edge prevents edge breakage
- Extended belt life with weld design that withstands wear longer
- Reduced Total Cost of Ownership



Cambridge Engineered Solutions
Knuckleback Belt by Rexnord

Furnace conditions

Temperature: 1127 degrees Celsius (2061°F)
Load: 88 KG/M² (18 pound/ft²)
Atmosphere: 97% Nitrogen 3% Hydrogen
Loading: Even loading
Speed: 7.62 meters/hour (25 ft per hour)
Cooling system: yes

Belt specifications

FBFS-36-10-6-10 KW
Spiral pitch: 8.5 mm (0.33 inch)
Cross bar pitch: 32 mm (1.26 inch)
Cross bar diameter: 5 mm (0.20 inch)
Spiral diameter: 3.4 mm (0.13 inch)



Learn more about the Knuckleback belt at www.rexnord.com



Want to talk with an expert?

- Call: 866-REXNORD/866-739-6673 (Within the U.S.) or 414-643-2366 (Outside the U.S.)
- Visit: www.rexnord.com/contact